

AT 命令手册—标准命令部分



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前 言

版本说明

本手册对应产品版本为：xxxxxx。

本书简介

读者对象

本书适合下列人员阅读：

无线终端技术开发人员

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Chapter 1 Basic AT Parameters

1.1 Command Echo

Syntax

ATE<n>

Parameter

The <n> is decimal number corresponding to the option:

- | 0: Disables command echo
- | 1: Enables command echo. (Default.)

Description

The command enables or disables the echo of characters to the DTE.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

ATE1

OK

ATE0

OK

1.2 Quiet Results Codes Control

Syntax

ATQ<n>

Parameter

The <n> is decimal number corresponding to the option:

- | 0: Enables result codes to the DTE. (Default.)
- | 1: Disables result codes to the DTE.

Description

The command enables or disables the sending of result codes to the DTE.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
ATQ0
```

```
OK
```

```
ATQ1
```

```
OK
```

1.3 Result Code Form

Syntax

ATV<n>

Parameter

The <n> is decimal number corresponding to the option:

- | 0: Enables short-form (terse) result codes. Line feed is not issued before a short-form result code.
- | 1: Enables long-form (verbose) result codes. (Default.)

Description

This command selects the sending of short-form or long-form result codes to the DTE.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
ATV0
```

```
OK
```

```
ATV1
```

```
OK
```

1.4 Soft Reset

Syntax

ATZ<n>

Parameter

The <n> is always 0

1 If no <value> is specified, zero is assumed.

Description

This command causes the modem to perform a soft reset.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
ATZ
```

```
OK
```

```
ATZ0
```

```
OK
```


1.5 Restore Factory Configuration

Syntax

AT&F<n>

Parameter

The <n> is always 0

- If no <value> is specified, zero is assumed.

Description

Same behavior as ATZ.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
AT&F
OK
AT&F0
OK
```

1.6 DCD Option

Syntax

AT&C<n>

Parameter

The <n> is decimal number corresponding to the selected option:

- 0: DCD remains ON at all times.
- 1: DCD ON in accordance with the specified service.

- | 2: DCD always on except wink on channel disconnect.

Description

The modem controls the DCD output in accordance with the parameter supplied.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
AT&C0
```

```
OK
```

1.7 DTR Option

Syntax

AT&D<n>

Parameter

The <n> is decimal number corresponding to the selected option:

- | 0: Ignore DTR
- | 1: For async service, modem enter online command state following ON-to-OFF transition of DTR; for pkt service, modem end call following On-to-Off transition of DTR;
- | 2: End call following On-to-Off transition of DTR.

Description

This command interprets the ON to OFF transition of the DTR signal from the DTE in accordance with the parameter supplied.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

AT&D0

OK

1.8 S-Parameters

Syntax

ATS<n>?

ATS<n>=<value>

Parameter

The number <n> following the "S" indicates the "parameter number" being referenced. If the number is not recognized as a valid parameter number, an ERROR result code is issued.

Immediately following this number, either a "?" or "=" character must appear. "?" is used to read the current value of the indicated S-parameter; "=" is used to set the S-parameter to a new value.

S-Parameter definitions

S0 - Number of Rings to Auto-Answer

S0 sets the number of the rings required before the modem automatically answers a call. the autoanswer function pertains to Async and Fax services only.

Setting this parameter to zero disables auto-answer mode.

<value>Range: 0-255 rings

Default: 0

S3 - Carriage Return Character

S3 sets the command line and result code terminator character

Range: 0-127, ASCII decimal

Default: 13 (Carriage Return)

S4 - Line Feed Character

S4 sets the character recognized as a line feed.

The Line Feed control character is output after the Carriage Return control character if verbose result codes are used.

Range: 0-127, ASCII decimal

Default: 10 (Line Feed)

S5 - Backspace Character

S5 sets the character recognized as a backspace.

The modem will not recognize the Backspace character if it is set to a value that is greater than 32 ASCII.

Range: 0-32, ASCII decimal

Default: 8 (Backspace)

Description

Reports the value of an S-Parameter or performs an S-Parameterwrite function.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
ATS0=3
```

```
OK
```

```
ATS0?
```

```
3
```

```
OK
```

Chapter 2 Extended AT Configuration Commands

2.1 Query minimum capability

Syntax

AT+GCAP

Parameter

None

Description

This extended-format command causes the MT2 to transmit one or more lines of information text in a specific format. The content is a list of additional capabilities command +<name>s, which is intended to permit the user of the MT2 to identify the minimum capabilities of the MT2.

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

An MT2 conforming to this standard shall include the following items, as a minimum, in the result code for the +GCAP command: * +CIS707, +MS, +ES, +DS, +FCLASS

Example

AT+GCAP

+GCAP: +CIS707-A, +MS, +ES, +DS, +FCLASS

OK

Application

2.2 Query the manufacturer name

Syntax

AT +GMI

Parameter

None

Description

This command causes the T2 to transmit one or more lines of information text, determined by the manufacturer, which is intended to permit the user of the MT2 to identify the manufacturer. Typically, the text will consist of a single line containing the name of the manufacturer, but manufacturers may choose to provide more information if desired (for example, address, telephone number for customer service, and so on)

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+GMI

+GMI: HUAWEI Technologies

OK

Application

2.3 Query Model Number

Syntax

AT+GMM

Parameter

None

Description

This command causes the MT2 to transmit one or more lines of information text, determined by the manufacturer, which is intended to permit the user of the MT2 to identify the specific model of the device. Typically, the text will consist of a single line containing the name of the product, but manufacturers may choose to provide any information desired

批注: 描述中不需要修改啊。

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+GMM

+GMM: Model 199

OK

Application

2.4 Query minimum capability

Syntax

AT+GMR

Parameter

None

Description

This command causes the MT2 to transmit one or more lines of information text, determined by the manufacturer, which is intended to permit the user of the MT2 to identify the version, revision level or date, or other pertinent information of the device. Typically, the text will consist of a single line containing the version of the product, but manufacturers may choose to provide any information desired.

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+GMR

+GMR: S/W VER: M6025A-SBTZ-2.5.201T SCMS1111 □

OK

Application

2.5 Local Flow Control

Syntax

AT+IFC=<fct1>,<fct2>

Parameter

<fct1>,<fct2> *Flow control type*

- | 0 – FCTL_OFF
- | 1 – XONXOFF_STRIP_FCTL
- | 2 – CTSRFR_FCTL

批注：资料中没有说明，不能指明方向。

3 – XONXOFF_NSTRIP_FCTL

Description

TE2-MT2 Local Flow Control. This extended-format compound parameter is used to control the operation of local flow control between the TE2 and MT2 ;. TIA/EIA/IS-131 states that this command only applies when the V.42 error control is being used, or when fallback to nonerror control mode is specified to include buffering and flow control. In this standard, this command applies independently of the use and setting of V.42. If V.42 is not used or not configured appropriately, data loss may occur.

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+IFC=3,0

OK

Application

2.6 Local Rate Reporting.

Syntax

AT+ILRR =<num>

Parameter

<num>

0 – Mobile Accepts only “OFF”

Description

This extended-format numeric parameter controls whether the extended-format +ILRR:<rate> information text is transmitted from the MT2 to the TE2.

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+ILRR=0

OK

Application

2.7 Fixed R_M Rate

Syntax

AT+IPR= <rate>

Parameter

<rate> R_M Rate

45, 50, 75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200

Description

This numeric extended-format parameter specifies the data rate at which the MT2 will accept commands, in addition to 1200 bit/s or 9600 bit/s (as required in EIA/TIA-602). It may be used to select operation at rates at which the MT2 is not capable of automatically detecting the data rate being used by the TE2.

Return Value

If the command succeeds, the display is:

OK

Otherwise, the display is ERROR.

Example

AT+IPR=115200

OK

Application

Chapter 3 Fax Parameters

3.1 Service-class Selection

Syntax

AT+FCLASS=<value>

Parameter

Value

- | 0 Class-0
- | 1 [Class-1 support unavailable] mobile will return ERROR for +FCLASS=1
- | 2 Class-2.0 fax service

Description

Service-class selection parameter

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

AT+FCLASS=?

0,2.0

OK

AT+FCLASS=1

ERROR

3.2 Pass Unrecognized Commands to the IWF

Syntax

AT+CXT=<value>

Parameter

value:

- 0 – Do not pass unrecognized commands to the IWF.
- 1 – When detecting an unrecognized AT command, open transport layer connection and pass unrecognized command to the IWF.

Description

Pass unrecognized commands to the IWF.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

AT+CXT=?

+CXT: (0-1)

OK

AT+CXT=2

ERROR

3.3 Query Current Service Type

Syntax

AT+CAD?

Parameter

None

Description

Query current Service type

Return Value

- | 0 – If no service is available
- | 1 – If CDMA Digital service is available
- | 2 – If TDMA Digital service is available
- | 3 – If Analog service is available (values 4 to 255 reserved)

Example

AT+CAD?

+CAD: 1

OK

3.4 Um Interface Data Compression Reporting

Syntax

AT+CDR=<value>

Parameter

value:

- | 0 –Do not report Um Interface Data Compression
- | 1 –Report Um Interface Data Compression

Description

Um Interface Data Compression Reporting. This extended-format numeric parameter controls whether the extended-format intermediate result code is transmitted by the MT2. The result code is the same as for the TIA/EIA/ IS-131 +DR: result code.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
AT+CDR?
```

```
+CDR: 0
```

```
OK
```

```
AT+CDR=?
```

```
+CDR: (0-1)
```

```
OK
```

```
AT+CDR=1
```

```
OK
```

```
AT+CDR=2
```

```
ERROR
```

3.5 Um Interface Data Compression

Syntax

```
AT+CDS=<v1>,<v2>,<v3>,<v4>
```

Parameter

V1,v2,v3,v4 is the version of compression algorithm.

Description

Um Interface Data Compression.This extended-format compound parameter controls the V.42bis data compression function on the Um interface. Mobile will only accept 0 as a valid setting.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

```
AT+CDS?
```

```
+CDS: 0,1,2048,6
```

```
OK
```

```
AT+CDS=1
ERROR
AT+CDS=?
+CDS: (0-0),(1-1),(512-65535),(6-250)

OK
AT+CDS=0,1,4096,7
OK
```

3.6 Set Rm Interface Protocol

Syntax

AT+CRM=<value>

Parameter

value:

- | 0 – Asynchronous Data or Fax
- | 1 – Packet data service, Relay Layer Rm interface
- | 2 – Packet data service, Network Layer Rm interface, PPP
- | 3 – Packet data service, Network Layer Rm interface, SLIP
- | 4 – STU-III Service
- | 5-127 – Reserved for future use
- | 128-255 – Reserved for manufacturer-specific use

Description

Set Rm interface protocol. The default value for the parameter shall be 0 if this value is supported by the MT2. If 0 is not supported, the default value shall be manufacturer-specific. Mode selection occurs automatically based on data received.

Return Value

If the command is resolved correctly, the display is OK

Otherwise, the display is ERROR.

Example

AT+CRM

OK

AT+CRM=?

+CRM: (0-2)

OK

AT+CRM?

+CRM: 0

OK

Chapter 4 CDMA AT Parameter Commands

4.1 Query Serving System.

Syntax

AT +CSS?

Parameter

None

Description

Query Serving System.

Return Value

+CSS: <Band Class>, <Band>, <SID>

Band Class:

- | C – The mobile station is registered with a cellular system.
- | P – The mobile station is registered with a PCS system.

Band:

- | CA – The mobile station is registered with a cellular A-band system.
- | CB – The mobile station is registered with a cellular B-band system.
- | PA – The mobile station is registered with a PCS A-band system.
- | PB – The mobile station is registered with a PCS B-band system.
- | PC – The mobile station is registered with a PCS C-band system.
- | PD – The mobile station is registered with a PCS D-band system.
- | PE – The mobile station is registered with a PCS E-band system.
- | PF – The mobile station is registered with a PCS F-band system.
- | Z – The mobile station is not registered.

SID:

- | 0-16383 – The mobile station is registered with the system indicated.
- | 99999 – The mobile station is not registered.

Example

AT+CSS?

+CSS: ?, 14655

OK

4.2 Query Received Signal Quality

Syntax

AT +CSQ?

Parameter

None

Description

Query Received Signal Quality. Returns the Signal Quality Measure <SQM> and the Frame Error Rate <FER>.

Return Value

+CSQ:<SQM>, <FER>

Signal Quality Measure <SQM>

- | 0-31 – Signal Quality Measurement (see “Note” below).
- | 99 – SQM is not known or is not detectable.
- | All other values are reserved.

Frame Error Rate <FER>

- | 0 – <0.01%
- | 1 – 0.01% to less than 0.1%
- | 2 – 0.1% to less than 0.5%
- | 3 – 0.5% to less than 1.0%
- | 4 – 1.0% to less than 2.0%
- | 5 – 2.0% to less than 4.0%
- | 6 – 4.0% to less than 8.0%
- | 7 – 8.0%
- | 99 – <FER> is not known or is not detectable.

! All other values are reserved.

Example

AT+CSQ?

+CSQ: 31, 99

OK

Chapter 5 Packet Data Service AT Commands

5.1 Set Um Packet Data Inactivity Timer

Syntax

AT+CTA=<value>

AT+CTA=?

AT+CTA?

Parameter

<value>: ranges from 0 to 255

- | 0: Traffic Channel not released during inactivity periods.
- | 1-255: Release the Traffic Channel after <value> 1-second intervals have elapsed since last sending or receiving RLP data frames on the Um interface.
- | 20: (default)

The **AT+CTA=?** command is used to query the parameter range of the **+CTA** command.

The **AT+CTA?** command is used to query the current value of the **+CTA** parameter.

Description

Set/Read/Test Um packet data inactivity timer.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT +CTA=30

OK

5.2 QNC Setting

Syntax

AT\$QCQNC=<onoff>

Parameter

<onoff>

- | 0: indicates to disable QNC (use Packet Data service option numbers) (default for HSPD builds).
- | 1: indicates to enable QNC (use Async Data Service Option numbers for Packet Data calls).

Description

Enable/disable QNC capability. Quick Net Connect (QNC) is a different means of performing basic packet data service.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT\$QCQNC=1

OK

5.3 Multiplex Option Control

Syntax

AT+CMUX=<A>,

Parameter

- | <A>: max. multiplex option to use for the Forward link. Valid numbers are 1 to F (hexadecimal).
- | : max. multiplex option to use for the Reverse link. Valid numbers are 1 and 2.
- | Default is C,2.
- | Rules:
 - If A is omitted, it is assumed to have the same value as B. If A is not omitted, its value remains the same as the previous invocation (or the default). A and B must be either both odd or both even.
 - If A & B are odd, then the phone will originate Data calls using Rate Set 1. If A & B are even, then the phone will originate Data calls using Rate Set 2.

Description

This command is used to set the maximum number of multiplex options for the forward and reverse links for MDR (HSPD) calls.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

```
AT+CMUX=B,1
```

```
OK
```

```
AT+CMUX=1
```

```
OK
```

Application

This command format is for MDR (HSPD) builds only. Non-MDR builds use the IS-707 +cmux format 1 (at+cmux=X where X can be 1 for Rate Set 1 or 2 for Rate Set 2).

5.4 SCRM Setting

Syntax

AT\$QCSCRM=<onoff>

Parameter

<onoff>

- | 0: indicates that Mobile never SCRM.
- | 1: indicates that Mobile can SCRM as needed.

Description

For IS2000 mobiles, this enables/disables the mobile from SCRM'ing.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT\$QCSCRM=0

OK

Application

Command only applies to SO 33 calls. This value is stored in NV. The default is 1.
For MSM500, MSM5105, and MSM5100 ASICs only.

5.5 R-SCH Throttling Setting

Syntax

AT\$QCTRL=<onoff>

Parameter

<onoff>:

- | 0: indicates that Mobile never throttles R-SCH.
- | 1: indicates that Mobile can throttle R-SCH as needed.

Description

For IS2000 mobiles, this enables/disables the mobile from throttling the R-SCH. The R-SCH is throttled when the assigned R-SCH rate is considered “too high” and could over utilize the CPU.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

```
AT$QCTRL=0
```

```
OK
```

Application

Command only applies to SO 33 calls. This value is stored in NV. Default is 1. For MSM500, MSM5105, and MSM5100 ASICs only.

5.6 Automatic Packet Detection Setting

Syntax

AT\$QCPKND =<*onoff*>

Parameter

<*onoff*> :

- | 0: indicates to disable Packet No Dial. If a PPP packet is received by the mobile without a just prior dial command (that is, AtdX #), then the mobile will originate a Packet (or QNC) data call.
- | 1: indicates to enable Packet No Dial. Reception of a PPP packet without a just prior dial command will NOT Originate a PPP packet (or QNC) call.

Description

Enable/disable Automatic Packet Detection after a Dial command.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT\$QCPKND=1

OK

5.7 DM Baud Rate Control

Syntax

AT\$QCDCMR=<value>

Parameter

<value> : includes 19200, 38400, 57600, 115200, 230400, and 460800, indicating DM baud rate.

Description

This command is to set DM baud rate.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT\$QCDCMR=115200

OK

5.8 Medium Data Rate Control

Syntax

AT\$QCMDR=<value>

Parameter

<value> : ranges from 0 to 3, indicating Medium Data Rate.

- | 0: indicates MDR Service Only. The mobile will originate with SOS 22 or SO 25. The mobile will not negotiate to any other service option if SO 22 and SO 25 are unavailable.
- | 1: indicates MDR Service, if available. The mobile will originate with SO 22 or SO 25, but will negotiate to a Low-Speed Packet service option if MDR is not available. The mobile will not negotiate to SO 33.
- | 2: indicates LSPD only. The mobile will originate a Low-Speed Packet call only. The mobile will not negotiate to SO 22, SO 25, or SO 33.
- | 3: indicates SO 33, if available. The mobile will negotiate to MDR or Low-Speed Packet service options if SO 33 is not available.

Description

This command is to set Medium Data Rate (MDR) (also known as HSPD) setting.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK

Example

AT\$QCMDR=3

OK

Chapter 6 Proprietary AT Command Set

6.1 Transition To Diagnostics Monitor (DM) Operation

Syntax

AT \$QCDMG

Parameter

None

Description

This command will return "OK" and then transition the phone serial port to DM mode. DM mode runs at 38.4 Kbps and uses a proprietary half-duplex protocol.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK Example

AT \$QCDMG

OK

6.2 Protocol Revision In Use

Syntax

AT\$QCPREV

Parameter

None

Description

This command will get the Protocol revision in use.

Return Value

Returns one of the following codes:

1: JSTD008, 3: IS_95A, 4: IS_95B, 6: IS_2000

Example

AT\$QCPREV

6

s

6.3 Dump Configuration Parameters

Syntax

AT&V

Parameter

None

Description

This command will dump the status of all AT parameters. This includes the single-letter parameters not otherwise readable, but does not include the +QC parameters.

Return Value

status of all AT parameters.

Example**AT&V**

```
&C: 2; &D: 2; &F: 0; E: 1; L: 0; M: 0; Q: 0; V: 1; X: 4; Z: 0; S0: 0
S10: 14; S11: 95; S3: 13; S4: 10; S5: 8; S6: 2; S7: 50; S8: 2; S9: 6
+FCLASS: 0; +CFG: ""; +FCC: 0,1,0,0,0,0,0,0; +FIS: 0,1,0,0,0,0,0,0
+CDR: 0; +CDS: 0,1,2048,6; +CFC: 0; +CQD: 10; +CRC: 0; +CRM: 0; +CTA: 0
+CXT: 0; +DR: 0; +DS: 3,0,2048,6; +EB: 1,0,30; +EFCS: 1; +ER: 0
+ES: 3,0,2; +ESR: 1; +ETBM: 1,1,20; +FAA: 0; +FAP: 0,0,0; +FBO: 0
+FBU: 0; +FCQ: 1,0; +FCR: 0; +FCT: 1E; +FEA: 0; +FFC: 0,0,0,0; +FHS: 0
+FIE: 0; +FIP: 0; +FLI: ""; +FLO: 1; +FLP: 0; +FMS: 0; +FNR: 0,0,0,0
+FNS: ""; +FPA: ""; +FPI: ""; +FPP: 0; +FPR: 8; +FPS: 1; +FPW: ""
+FRQ: 0,0; +FRY: 0; +FSA: ""; +FSP: 0; +ICF: 3,3; +IFC: 2,2; +ILRR: 0
+IPR: 115200; +MA: ; +MR: 0; +MS: ; +MV18R: 0; +MV18S: 0,0,0; +CMUX: C,2
+CMEE: 2; +CMGD: 1
```

6.4 Set Data Service Option Number Set

Syntax

AT\$QCSO=<number>

Parameter

Number:

- 0 : pre-707 SO numbers (RS 1: Async 4, G3 Fax 5, packet 7; RS 2: Async 12, G3 Fax 13, packet 15)
- 1 : proprietary SO numbers (RS 1: Async 4, G3 Fax 5, packet 7; RS 2: Async 0x8021, G3 Fax 0x8022, packet 0x8020)

2 : IS-707 SO numbers (RS 1: Async 0x1004, G3 Fax 0x1005, packet 0x1007; RS 2: Async 12, G3 Fax 13, packet 15)

Description

This command will Set Data Service Option number set; saves to non-volatile memory.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK.

Example

```
AT$qcso=2
```

```
ok
```

6.5 Clear Mobile Error Log

Syntax

AT\$QCCLR

Parameter

None

Description

This command will clear the mobile error log.

Return Value

If the command fails, the display is:

ERROR

If the command succeeds, the display is:

OK.

Example

AT\$QCCLR

\$QCCLR:

OK